



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07K 14/725	A2	(11) International Publication Number: WO 98/54223 (43) International Publication Date: 3 December 1998 (03.12.98)
(21) International Application Number: PCT/GB98/01382 (22) International Filing Date: 27 May 1998 (27.05.98) (30) Priority Data: 9710820.3 27 May 1997 (27.05.97) GB (71) Applicant (for all designated States except US): UNIVERSITY OF DUNDEE [GB/GB]; Dundee DD1 4HN (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): KAY, Richard, Andrew [GB/GB]; 23 Kilnburn, Newport-on-Tay DD6 8DE (GB). (74) Agent: BASSETT, Richard; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: IMMUNOLOGICAL METHOD (57) Abstract A method of identifying an antigen-responsive T cell within a population of T cells, the method comprising the steps of: (1) obtaining a sample containing T cells which have responded to the antigen; (2) determining individually for each of a plurality of specific T cell receptors, or individually for each of a plurality of subsets of T cell receptors, whether expression of a gene encoding a specific T cell receptor, or whether expression of genes encoding a subset of T cell receptors, has increased per specific T cell receptor-positive T cell or per specific T cell receptor-positive T cell subset compared to the expression of said gene or genes in a sample containing T cells which have not responded to the antigen. The method is useful for identifying antigen-responsive T cells which are associated with a disease state such as rheumatoid arthritis.		